



LINECHEK® II

Fully-Automated Line Leakage Tester

The 620L is a stand alone Line Leakage tester with an enhanced graphic LCD which automates leakage testing in production and laboratory environments. The 620L is configured for up to 40 Amps of current draw for DUT input power. It is designed to test to most safety agency standards for line leakage testing. The 620L comes standard with RS-232 and USB interfaces. Ethernet, GPIB, and RS-485 interfaces are also available.

Model 620L - Fully-Automated Line Leakage Tester

Features and Benefits

- Test operators can configure the 620L to perform all 8 required Line Leakage tests
- Leakage current readings can be monitored using both PEAK and RMS measurements
- Most common measuring devices (MD's) are already incorporated into the instrument's intuitive menu system
- 50 Memories with 30 steps per memory can be stored and recalled in any alphanumeric combination
- Compact 3U Rack Mount Design
- Optional Functional Run Testing for additional measurements
- Interconnection to AC1000 AC Power Source or APT Brand AC Power Source
- Interconnection to SC6540 Modular Scanner provides automated control of multiple test points
- Graphic LCD and intuitive menu system to simplify the entire testing process
- Patented CAL-ALERT® alerts the operator that the 620L is due for re-calibration
- Handles up to 40 Amp maximum continuous DUT Current
- Optional cold resistance measurement capability
- RS-232/USB, GPIB, Ethernet, or RS-485 automation interfaces available
- Easily Interconnect to any automated Associated Research Hipot Tester
- Autaware Testing Software available for complete Automation Control

Input Specifications

Voltage	115/230 VAC ± 10%, user selection
Frequency	50/60 Hz ± 5%
Fuse	2A Slow-Blo 250V AC

Line Conditions

Reverse Power Switch	Reverse polarity switch for normal condition
Neutral Switch	Neutral switch on/off selection for single fault
Ground Switch	Ground switch on/off selection for class I single fault

Probe Settings

Surface to Surface (PH - PL)	
Surface to Line (PH - L)	
Ground to Line (G - L)	

Leakage Limit Settings

Touch Current	
High/Low Limit (RMS)	Range: 0.0 µA - 999.9 µA / 1000 µA - 9999 µA / 10.00 mA - 20.00 mA Resolution: 0.1 µA/1 µA/0.01 mA
Touch Current	
High/Low Limit (Peak)	Range: 0.0 µA - 999.9 µA / 1000 µA - 9999 µA / 10.00 mA - 30.00 mA Resolution: 0.1 µA/1 µA/0.01 mA

Display

Touch Current	
Display (RMS)	Range: 0.0 µA - 550 µA, frequency DC - 1 MHz Resolution: 0.1 µA Accuracy: DC: $15 \text{ Hz} \leq f < 100 \text{ KHz}$: ±(2% of reading + 3 counts) $100 \text{ KHz} \leq f \leq 1 \text{ MHz}$: ±5% of reading, (10.0 µA - 999.9 µA) Range: 400 µA - 8500 µA, frequency DC - 1 MHz Resolution: 1 µA Accuracy: DC: $15 \text{ Hz} \leq f < 100 \text{ KHz}$: ±(2% of reading + 3 counts) $100 \text{ KHz} \leq f \leq 1 \text{ MHz}$: ±5% of reading, (10 µA - 8500 µA) Range: 8.00 mA - 20.00 mA, frequency DC - 1 MHz Resolution: 0.01 mA Accuracy: DC: $15 \text{ Hz} \leq f \leq 100 \text{ MHz}$: ±5% of reading, (0.01 mA - 20.00 mA)
Touch Current	
Display (Peak)	Range: 0.0 µA - 550 µA, frequency DC - 1 MHz Resolution: 0.1 µA Accuracy: DC : ±(2% of reading +3 counts) $15 \text{ Hz} \leq f \leq 1 \text{ MHz}$: ±10% of reading +2 µA Range: 400 µA - 8500 µA, frequency DC - 1 MHz Resolution: 1 µA Accuracy: DC: ±(2% of reading +3 counts) $15 \text{ Hz} \leq f \leq 1 \text{ MHz}$: ±10% of reading +2 µA Range: 8.00 mA - 30.00 mA, frequency DC - 100 KHz Resolution: 0.01 mA Accuracy: DC: ±(2% of reading +3 counts) $15 \text{ Hz} \leq f \leq 100 \text{ KHz}$: ±10% of reading +2 counts

Measuring Device Module

MD1	UL544NP, UL484 , UL923, UL471, UL867, UL697
MD2	UL544P
MD3	IEC 60601-1
MD4	UL1563
MD5	IEC60990 Fig4 U2, IEC60950-1, IEC60335-1, IEC60598-1, IEC60065, IEC61010
MD6	IEC60990 Fig5 U3, IEC60598-1
MD7	IEC60950, IEC61010-1 FigA.2 (2K ohm) for Run function
External MD	Basic measuring element 1k ohm
MD Voltage Limit	70Vdc

DUT Power

AC Voltage:	0.0 - 277.0 V
AC Current:	40 Arms max continuous
Over Current Protection	50 Arms, Response Time < 3 sec / 250 A peak Response Time <10 µ sec
AC Voltage High/Low Limit	Range: 0.0 - 277.0 V Resolution: 0.1 V/step
AC Voltage Display	Range: 0.0 - 277.0 V Resolution: 0.1 V/step Accuracy: ± (1.5% of reading + 2 counts), 30.0 - 277.0 V
Delay time setting	Range: 0.5 – 999.9 sec Resolution: 0.1 sec
Dwell time setting	Range: 0, 0.5 – 999.9 sec (0=Continuous) Resolution: 0.1 sec Accuracy: ± (0.1% of reading + 0.05 seconds)

General Specifications

Dimension	(W x H x D) 16.93 x 5.24 x 11.81 (430 x 133 x 300 mm)
Weight	26.45 lbs (12 kgs)
Display	320 X 240 graphic LCD
Mechanical	Bench or rack mount with tilt up feet
Memory	50 Memories, 30 steps per each memory File locations can link 900 steps max
Interface	RS232/USB Standard, Ethernet, GPIB, Data Storage (RS-485) Optional

Specifications subject to change without notice.

**We have local sales offices throughout
the world to serve you more efficiently.**

To find your nearest representative visit the
"Local Sales Offices" section of our web site at
www.asresearch.com or call us toll-free at 1-800-858-8378



13860 West Laurel Drive,
Lake Forest, IL U.S.A. 60045

Tel: +1-847-367-4077 Fax: +1-847-367-4080

E-mail: info@asresearch.com

For more information visit us at www.asresearch.com
or call us toll-free at 1-800-858-TEST(8378)